

**Play:** 4406 Upper Pennsylvanian, Northwestern and Eastern Shelves, Northern Delaware and Midland Basins and Northern Central Basin Platform

**Province:** 44 Permian Basin

**Geologist:** Ball, M.M. **Status:** confirmed

<b>Play Attributes:</b>	<u>Probability of Occurrence</u>
Charge	1.00
Reservoir rock	1.00
Traps	1.00
<b>Play Probability</b>	<b>1.00</b>

**Size of Undiscovered Accumulations (>1 MMBOE) (Conditional):**

	<u>Oil Accumulations</u>	<u>Gas Accumulations</u>
Median	3 MMBO	20 BCFG
F5 of Largest Accumulation	100 MMBO	100 BCFG
TSP Shape Factor	6	3
Mean (calculated)	7.0 MMBO	27.4 BCFG

**Number of Undiscovered Accumulations (>1 MMBOE) (Conditional):**

	<u>Oil Accumulations</u>	<u>Gas Accumulations</u>
Minimum	30	6
Median	60	12
Maximum	150	30
Mean (calculated)	72.5	14.5

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**Ratio of Associated-Dissolved Gas to Oil:** 1,900 CFG/bbl

**Ratio of NGL to Non-Associated Gas:** 44 bbl/MMCF

**Ratio of NGL to Associated-Dissolved Gas** 86 bbl/MMCF

<b>API Gravity (degrees):</b>	<u>minimum</u>	<u>mean</u>	<u>maximum</u>
	26.0	40.0	55.0

<b>Depth of Oil Accumulations (ft):</b>	<u>minimum</u>	<u>median</u>	<u>maximum</u>
	3,000	7,000	12,000

<b>Depth of N-A Gas Accumulations (ft):</b>	<u>minimum</u>	<u>median</u>	<u>maximum</u>
	5,000	11,000	16,000

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**Estimated Resources:**

**Oil (MMBO)**

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
5.50	29.00	118.90	230.00	448.10	757.30	940.00	507.00	243.60

**NGL (MMBNGL)**

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
1.34	6.10	24.20	46.53	90.21	151.45	187.27	100.30	48.50

**Associated-Dissolved Gas (BCFG)**

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
10.45	55.10	225.91	437.00	851.39	1,438.87	1,786.00	963.20	462.84

**Non-Associated Gas (BCFG)**

<u>F99</u>	<u>F95</u>	<u>F75</u>	<u>F50</u>	<u>F25</u>	<u>F5</u>	<u>F1</u>	<u>mean</u>	<u>s.d.</u>
10.10	30.90	108.50	203.30	386.20	629.80	765.30	397.00	197.70